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(54) Title: AN MG-BASED FERRITE, AN ELECTROPHOTOGRAPHIC DEVELOPMENT CARRIER CONTAINING THE FERRITE, AND DEVELOPER CONTAINING THE CARRIER

(57) Abstract: This invention provides an Mg-based ferrite having a high dielectric breakdown voltage and a saturation magnetiza-
tion suitable for electrophotographic development, a carrier containing the ferrite, and an electrophotographic developer containing
the carrier. The Mg-based ferrite material of this invention comprises Li, Na, K, Rb, Cs, Ca, Sr, Ba, Y, La, Ti, Zr, Hf, V, Nb, Ta, Al,
Ga, Si, Ge, P, Sb, Bi or a combination thereof. The Mg-based ferrite material has a saturation magnetization of 30 to 80 emu/g, and
a dielectric breakdown voltage of 1.5 to 5.0 kV. The Mg-based ferrite material can realize high image quality, and be in compliance
with environmental regulations.

WO 2005/048276 A2